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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,427	1	1/30/2001	Roberto L. Quoiani	FMCE-P073	5491
7	590	03/26/2003			
Henry C. Que			EXAMINER		
504 S. Pierce Avenue Wheaton, IL 60187				PICKARD, ALISON K	
				ART UNIT	PAPER NUMBER
				3676	
				DATE MAILED: 03/26/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Ž.	_	10/010,427	QUOIANI, ROBERTO L.					
. 17	Office Action Summary	Examiner	Art Unit					
	-	Alison K. Pickard	3676					
	- The MAILING DATE of this communication app							
Period fo								
THE N - Exten after: - If the - If NO - Failui - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, exply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) and will expire SIX (6) MONTHS cause the application to become ABANDs	e timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).					
1)	Responsive to communication(s) filed on							
2a)□		— · s action is non-final.						
3)	Since this application is in condition for allowa		prosecution as to the merits is					
,	closed in accordance with the practice under <i>b</i> on of Claims							
4)🖾	Claim(s) 1-19 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdraw	n from consideration.						
5)□	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-19</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/or	election requirement.						
	on Papers							
·	The specification is objected to by the Examiner							
10)∐ 7	he drawing(s) filed on is/are: a) accep							
44)[] 7	Applicant may not request that any objection to the		· ·					
11)[_]	The proposed drawing correction filed on		proved by the Examiner.					
12)[]]	If approved, corrected drawings are required in rep The oath or declaration is objected to by the Exa							
	nder 35 U.S.C. §§ 119 and 120	ammen.						
	Acknowledgment is made of a claim for foreign	priority under 35 H S C & 11	9(a)-(d) or (f)					
_	☑ All b)☐ Some * c)☐ None of:	phoney under 00 0.0.0. g 11	3(a)-(a) or (i).					
۵,2	1.⊠ Certified copies of the priority documents	have been received						
	2.☐ Certified copies of the priority documents		cation No.					
	3.☐ Copies of the certified copies of the priori	···						
	application from the International Bur ee the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	_					
/ 14) □ A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 1	9(e) (to a provisional application).					
	☐ The translation of the foreign language productions of the foreign language productions are translation of the foreign language production.							
Attachment	-							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3.4</u>	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)					

Application/Control Number: 10/010,427

Art Unit: 3676

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 4-13, 16, 17, and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Flaherty (4,445,694).

Flaherty discloses a metallic seal component 1 comprising a shape memory alloy that exhibits super-elastic properties. The seal component comprises a spring and a u-shaped sealing element/ring 4. The element 4 has a ridge (at 4) that sealingly contacts a sealing surface. The component is chilled, and when it heats up (to say ambient conditions) it is energized to its sealing state and generates sealing contact forces. The component is considered bi-metallic in that there are two metal parts 1 and 4 forming the component.

3. Claims 1-3, 5-15, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Great Britain Patent 1,299,819.

GB '819 discloses a metallic seal component comprising a shape memory alloy that exhibits super-elastic properties. The component comprises a u-shaped sealing element/ring 4 having a sealing ridge 20 that makes sealing contact with a sealing surface (e.g. see Fig. 2). Item 1 is considered an energizing mandrel in that it contacts the component to form a seal. Similarly, mandrel 5 (see Fig. 4) energizes or activates a seal between component 10 and surface of 6. The seal enabling state is effected by heating or cooling. Component 10 is tubular.

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4. Claims 1, 2, 5-14, and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Krumme (4,773,680).

Krumme discloses a metallic seal component comprising a shape memory alloy that exhibits super-elastic properties. The component comprises a u-shaped sealing element/ring (e.g. Fig. 1) or a tubular cross-section (e.g. Fig. 8d). The component is bi-metallic 28/26. The component is changed to an energized sealing state by heating or cooling.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alison K. Pickard whose telephone number is 703-305-0882. The examiner can normally be reached on M-F (9-6:30), with alternate Friday's off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on 703-308-3179. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9326 for regular communications and 703-8729327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1113.

Alison K. Pickard

Examiner

Art Unit 3676

AP

March 23, 2003